

Claims

Claim 1: A composition comprising:

(a) an oily substance; and

(b) a solubilizer containing:

(i) a first surfactant selected from the group consisting of a fatty alcohol ethoxylate corresponding to formula (I):

$R^1-(C_2H_4O)_n-H$, wherein R^1 is a linear or branched, saturated or unsaturated alkyl moiety having from about 6 to 22 carbon atoms, and n is an integer from 1 to about 10, a fatty alcohol alkoxyate corresponding to formula (II):

$R^2-(C_2H_4O)_n-(C_3H_6-O)_m-H$, wherein R^2 is a linear or branched, saturated or unsaturated alkyl moiety having from about 6 to 22 carbon atoms, and n and m are, independently from one another, an integer from 1 to about 10, and mixtures thereof;

(ii) an alkyl and/or alkenyl oligoglycoside corresponding to formula (III):

$R^3O-[G]_p$ wherein R^3 is a branched and unbranched alkyl and/or alkenyl radical having from about 4 to 22 carbon atoms, G is a sugar radical having 5 or 6 carbon atoms, and p is a number from 1 to 10;

(iii) a fatty alcohol ether sulfate corresponding to formula (IV):

$R^4-(C_2H_4O)_n-SO_3^-K^+$ wherein R^4 is a linear or branched, saturated or unsaturated alkyl moiety having from about 6 to 22 carbon atoms, n is a number from 1 to about 10, and K^+ represents a cation; and

(iv) optionally, an acid component.

Claim 2: The composition of claim 1 wherein (i) is present in the solubilizer in an amount of from about 1 to 20% by weight, based on the weight of the solubilizer.

Claim 3: The composition of claim 1 wherein (i) is present in the solubilizer in an amount of from about 2 to 15% by weight, based on the weight of the solubilizer.

Claim 4: The composition of claim 1 wherein (i) is present in the solubilizer in an amount of from about 5 to 10% by weight, based on the weight of the solubilizer.

Claim 5: The composition of claim 1 wherein (ii) is present in the solubilizer in an amount of from about 10 to 60% by weight, based on the weight of the solubilizer.

5 Claim 6: The composition of claim 1 wherein (ii) is present in the solubilizer in an amount of from about 25 to 50% by weight, based on the weight of the solubilizer.

Claim 7: The composition of claim 1 wherein (iii) is present in the solubilizer in an amount of from about 10 to 80% by weight, based on the weight of the solubilizer.

10 Claim 8: The composition of claim 1 wherein (iii) is present in the solubilizer in an amount of from about 25 to 60% by weight, based on the weight of the solubilizer.

Claim 9: The composition of claim 1 wherein (iii) is present in the solubilizer in an amount of from about 30 to 55% by weight, based on the weight of the solubilizer.

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Claim 10: The composition of claim 1 wherein (iv) is present in the solubilizer in an amount of from about 0.1 to 3% by weight, based on the weight of the solubilizer.

20 Claim 11: The composition of claim 1 wherein the solubilizer is present in the composition in an amount of from about 1 to 30% by weight, based on the weight of the composition.

Claim 12: A process for solubilizing an oily substance comprising:

- 25 (a) providing an oily substance;
- (b) providing a solubilizer containing:
- (i) a first surfactant selected from the group consisting of a fatty alcohol ethoxylate corresponding to formula (I):
- $$R^1-(C_2H_4O)_n-H$$
, wherein R^1 is a linear or branched, saturated or unsaturated alkyl moiety having from about 6 to 22 carbon atoms, and n is an integer from 1 to about 10, a fatty alcohol alkoxylate corresponding to formula (II);
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$$R^2-(C_2H_4O)_n-(C_3H_6O)_m-H$$
, wherein R^2 is a linear or branched, saturated or unsaturated alkyl moiety having from about 6 to 22 carbon atoms,

and n and m are, independently from one another, an integer from 1 to about 10, and mixtures thereof;

(ii) an alkyl and/or alkenyl oligoglycoside corresponding to formula (III): $R^3O-[G]_p$ wherein R^3 is a branched and unbranched alkyl and/or alkenyl radical having from about 4 to 22 carbon atoms, G is a sugar radical having 5 or 6 carbon atoms, and p is a number from 1 to 10;

(iii) a fatty alcohol ether sulfate corresponding to formula (IV): $R^4-(C_2H_4O)_n-SO_3^-K^+$ wherein R^4 is a linear or branched, saturated or unsaturated alkyl moiety having from about 6 to 22 carbon atoms, n is a number from 1 to about 10, and K^+ represents a cation; and

(iv) optionally, an acid component; and

(c) combining (a) and (b).

Claim 13: The process of claim 12 wherein (i) is present in the solubilizer in an amount of from about 1 to 20% by weight, based on the weight of the solubilizer.

Claim 14: The process of claim 12 wherein (i) is present in the solubilizer in an amount of from about 5 to 10% by weight, based on the weight of the solubilizer.

Claim 15: The process of claim 12 wherein (ii) is present in the solubilizer in an amount of from about 10 to 60% by weight, based on the weight of the solubilizer.

Claim 16: The process of claim 12 wherein (ii) is present in the solubilizer in an amount of from about 25 to 50% by weight, based on the weight of the solubilizer.

Claim 17: The process of claim 12 wherein (iii) is present in the solubilizer in an amount of from about 10 to 80% by weight, based on the weight of the solubilizer.

Claim 18: The process of claim 12 wherein (iii) is present in the solubilizer in an amount of from about 30 to 55% by weight, based on the weight of the solubilizer.

Claim 19: The process of claim 12 wherein (iv) is present in the solubilizer in an amount of from about 0.1 to 3% by weight, based on the weight of the solubilizer.

Claim 20: The process of claim 12 wherein the solubilizer is present in the composition in an amount of from about 1 to 30% by weight, based on the weight of the composition.